Master of Education in Open, Digital, and Distance Education (MDDE) 663

Seminar Topics in Emerging Technologies: Emerging Issues in Distance Education Technologies (Revision 1)

Status:	Replaced with new revision, see the **course listing** for the current revision
Delivery mode:	**Grouped study**
Credits:	3
Area of study:	Distance Education
Prerequisite:	None
Precluded:	None
Faculty:	**Faculty of Humanities and Social Sciences**
	MEd program students should complete **MDDE601** and **MDDE602** prior to all other courses.

Notes:

Early access to the Moodle Learning Management System begins a few days before the official start date of your course. At that time, you will have limited course access.

Overview

Emerging Issues in Distance Education Technologies provides learners with the pedagogical foundations for examining emerging technologies and their implications for online teaching, learning and our digitalized society. Through a series of practical exercises, learners will apply emerging technologies in problem-based educational scenarios, then analyze and reflect on:

1. artificial intelligence in education (AIEd)
2. gamification and interactive multimedia
3. immersive augmented reality (AR) and virtual reality (VR) learning environments,
4. blockchain and micro-credentialing,
5. technology ethics and policies

Outline

Unit 1: Foundations of Educational Technologies

- Provides an overview of emerging technologies for teaching and learning

Unit 2: Extending Perception and Reality

- Discussion of augmented reality (AR), virtual reality (VR), and the metaverse

Unit 3: Transforming Teaching, Learning and Education

- Examining artificial intelligence, games and simulations and other technologies

Unit 4: Digital futures: Technology Implications for Education and Society

- A look at cybersecurity, techno-ethics and surveillance
- The Fourth Industrial Revolution?

Learning outcomes

1. Evaluate a variety of emerging technologies, appropriate applications, as well as their implications for education and research
2. Identify key issues and challenges related to the uptake, ethics, and policies surrounding learning technologies
3. Critically analyze future trends in emerging technologies for teaching and learning

Evaluation

To receive credit for this course, students must participate in the online activities, successfully complete the assignments, and be familiar with the **Graduate Grading Policy** .

The following table summarizes the evaluation activities and the credit weights associated with them.

Activity	Weight
Course and peer engagement: Course engagement and participation based on the quality and quantity of your contributions. Please expect to dedicate at least 3-5 hours per week towards asynchronous course materials, activities and forum discussions. Learners will also attend synchronous sessions on a monthly basis.	10%

Activity	Weight
Learning Exercises: Throughout the course, you will be prompted to complete several activities that require your application of emerging technologies for specific scenarios. There are a total of 6 options and you must complete at least 3 of these learning exercises to maximize your mark for this assessment component. Each learning exercise will include reflective and analysis components.	45% (3 x 15%)
A Digital Future: AI-Blog critique and demonstration: With AI support, write a blog reviewing an emerging technology of your choice and discuss its implications for teaching and learning. Then, create a video/ multimedia recording of you teaching one example of how to apply this technology in an educational context.	30%
Learning Journal: Based on writing prompts, you will reflect upon your experiences in the course.	15%
Total	**100%**

Materials

Online materials and readings. (Online)

Important links

- Course schedule

Athabasca University reserves the right to amend course outlines occasionally and without notice. Courses offered by other delivery methods may vary from their individualized study counterparts.

Opened in Revision 1, October 23, 2023

Updated October 8, 2024